

Appendix C - 4

Summary of Direct Radiation Monitoring Data



An Environmental TLD Package

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Table C - 4.1
Summary of 1996 Quarterly Averages of Off-site TLD Measurements
 $(mR \pm 3 SD/Quarter)$

Location Number*	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DFTLD01	16±2.0	24±2.6	20±3.4	NR	20±2.7
DFTLD02	15±1.1	24±5.0	19±4.0	NR	19±3.4
DFTLD03	13±0.8	23±2.8	19±1.6	NR	18±1.7
DFTLD04	13±1.6	24±1.7	24±7.0	NR	20±3.4
DFTLD05	13±1.5	22±3.0	19±2.6	NR	18±2.4
DFTLD06	15±1.5	24±3.0	19±2.4	NR	19±2.3
DFTLD07	14±0.5	22±1.2	20±2.4	NR	19±1.4
DFTLD08	17±3.4	20±0.9	22±8.7	NR	20±4.3
DFTLD09	15±0.7	19±3.2	20±4.7	NR	18±2.9
DFTLD10	14±0.5	21±2.8	21±3.7	NR	19±2.3
DFTLD11	17±1.2	22±2.8	23±6.0	NR	21±3.3
DFTLD12	16±0.8	23±1.8	22±3.2	NR	20±1.9
DFTLD13	17±0.6	22±3.1	23±4.6	NR	21±2.8
DFTLD14	17±2.4	24±2.9	21±4.8	NR	21±3.4
DFTLD15	15±1.7	21±2.0	18±3.7	NR	18±2.5
DFTLD16	17±1.1	24±3.5	21±3.2	NR	21±2.6
DFTLD17	16±1.5	27±1.4	22±5.0	NR	22±2.6
DFTLD20	16±2.2	25±3.4	22±3.7	NR	21±3.1
DFTLD21	17±1.6	24±1.6	20±3.4	NR	20±2.2
DFTLD22	17±1.7	24±1.6	18±0.8	NR	20±1.4
DFTLD23	15±1.3	25±3.0	23±8.7	NR	21±4.3
DFTLD37	16±1.6	24±2.2	23±5.1	NR	21±3.0
DFTLD41	14±0.4	22±1.4	17±3.4	NR	18±1.7

NR = These results have not been reported because the data validation process indicated that the data were not reliable.

* Off-site locations are shown on Figures 2-14, A-7, and A-9. Background measurements are provided by off-site TLDs 17, 23, 37, and 41.

Table C - 4.2
Summary of 1996 Quarterly Averages of On-site TLD Measurements
(mR \pm 3 SD/Quarter)

Location Number*	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DNTLD18	34 \pm 2.1	42 \pm 1.3	42 \pm 7.6	NR	39 \pm 3.7
DNTLD19	18 \pm 1.7	27 \pm 3.1	25 \pm 6.2	NR	23 \pm 3.7
DNTLD24	934 \pm 55.6	769 \pm 20.6	776 \pm 27.8	NR	826 \pm 34.7
DNTLD25	24 \pm 3.0	32 \pm 4.4	29 \pm 6.3	NR	28 \pm 4.6
DNTLD26	21 \pm 3.2	30 \pm 6.2	25 \pm 3.3	NR	25 \pm 4.2
DNTLD27	16 \pm 1.1	30 \pm 3.1	24 \pm 6.0	NR	23 \pm 3.4
DNTLD28	18 \pm 2.7	29 \pm 3.9	27 \pm 3.6	NR	25 \pm 3.4
DNTLD29	16 \pm 1.7	27 \pm 4.9	23 \pm 3.8	NR	22 \pm 3.5
DNTLD30	20 \pm 0.7	29 \pm 2.4	25 \pm 3.7	NR	25 \pm 2.3
DNTLD31	17 \pm 1.6	21 \pm 2.1	23 \pm 1.7	NR	20 \pm 1.8
DNTLD32	26 \pm 0.5	37 \pm 1.3	37 \pm 5.4	NR	33 \pm 2.4
DNTLD33	29 \pm 2.2	40 \pm 1.7	37 \pm 3.1	NR	35 \pm 2.3
DNTLD34	59 \pm 2.4	65 \pm 2.9	65 \pm 6.6	NR	63 \pm 4.0
DNTLD35	89 \pm 6.3	97 \pm 6.7	90 \pm 4.4	NR	92 \pm 5.8
DNTLD36	44 \pm 1.9	49 \pm 3.3	47 \pm 7.2	NR	47 \pm 4.1
DNTLD38	31 \pm 5.1	38 \pm 1.3	37 \pm 2.8	NR	35 \pm 3.1
DNTLD39	55 \pm 2.3	79 \pm 8.4	62 \pm 4.8	NR	65 \pm 5.2
DNTLD40	170 \pm 5.2	173 \pm 11.4	199 \pm 7.7	NR	181 \pm 8.1
DNTLD42	83 \pm 3.7	93 \pm 3.8	88 \pm 7.1	NR	88 \pm 4.9
DNTLD43	33 \pm 2.2	42 \pm 3.8	37 \pm 4.4	NR	37 \pm 3.5

NR = These results have not been reported because the data validation process indicated that the data were not reliable.

* On-site locations are shown on Figures 2-13 and A-8.

Table C - 4.3

3rd Quarter 1996 TLD Results and Instantaneous Dose Readings with a High-pressure Ion Chamber (HPIC) at Each Monitoring Location

<i>Off-site Location Number</i>	<i>3rd Quarter TLD Result ($\mu\text{R}/\text{hr}$)</i>	<i>August 1996 HPIC Results ($\mu\text{R}/\text{hr}$)</i>	<i>On-site Location Number</i>	<i>3rd Quarter TLD Result ($\mu\text{R}/\text{hr}$)</i>	<i>August 1996 HPIC Results ($\mu\text{R}/\text{hr}$)</i>
DFTLD01	8.87	11.2	DNTLD18	18.6	18.4
DFTLD02	8.42	11.8	DNTLD19	11.1	10.6
DFTLD03	8.42	10.6	DNTLD24	344.0	354.8
DFTLD04	10.64	9.5	DNTLD25	12.9	12.9
DFTLD05	8.42	10.7	DNTLD26	11.1	11.6
DFTLD06	8.42	9.0	DNTLD27	10.6	9.9
DFTLD07	8.87	8.6	DNTLD28	12.0	10.6
DFTLD08	9.75	8.1	DNTLD29	10.2	9.8
DFTLD09	8.87	8.8	DNTLD30	11.1	12.3
DFTLD10	9.31	8.8	DNTLD31	10.2	9.8
DFTLD11	10.20	9.9	DNTLD32	16.4	14.9
DFTLD12	9.75	9.3	DNTLD33	16.4	17.2
DFTLD13	10.20	9.5	DNTLD34	28.8	32.6
DFTLD14	9.31	9.8	DNTLD35	39.9	44.2
DFTLD15	7.98	8.9	DNTLD36	20.8	23.9
DFTLD16	9.31	9.0	DNTLD38	16.4	17.0
DFTLD17	9.75	8.8	DNTLD39	27.5	29.7
DFTLD20	9.75	9.5	DNTLD40	88.2	100.0
DFTLD21	8.87	8.4	DNTLD42	39.0	33.2
DFTLD22	7.98	9.0	DNTLD43	16.4	18.4
DFTLD23	10.20	9.0			
DFTLD37	10.20	9.7			
DFTLD41	7.54	8.4			

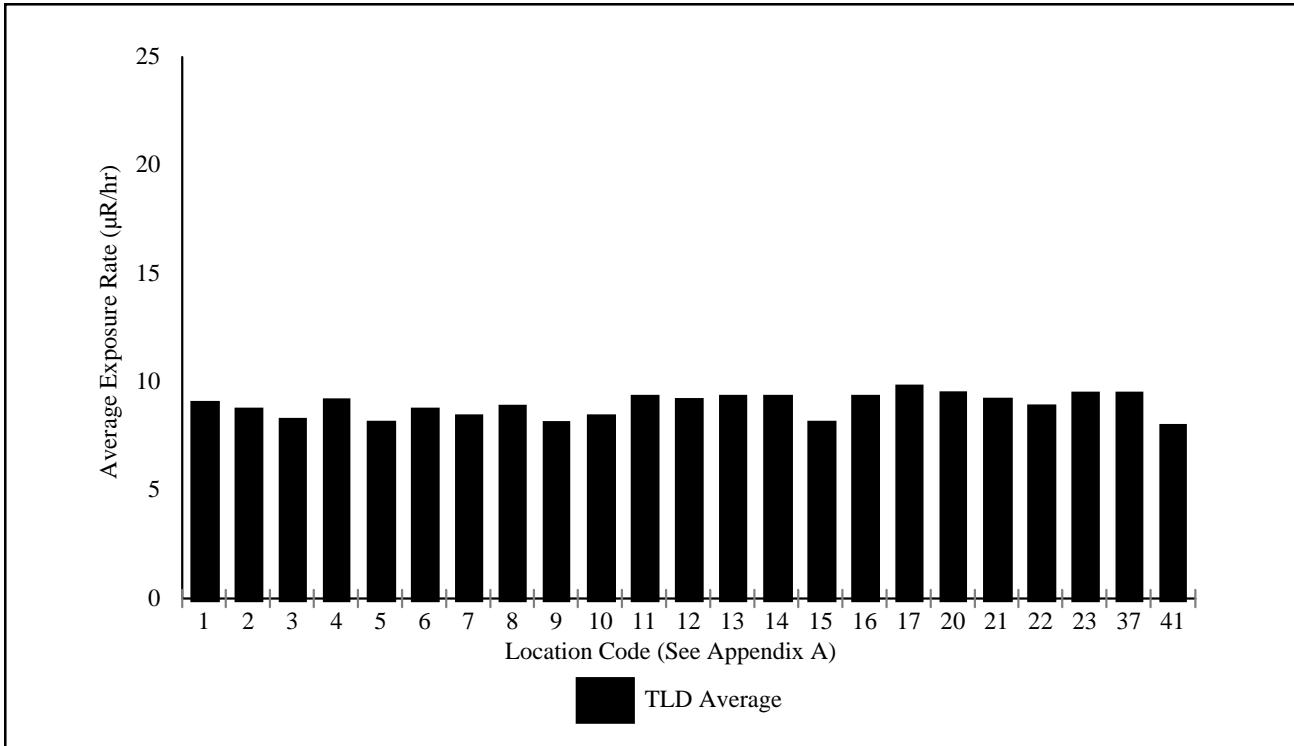


Figure C - 4.1

1996 Average Quarterly Gamma Exposure Rates around the West Valley Demonstration Project Site

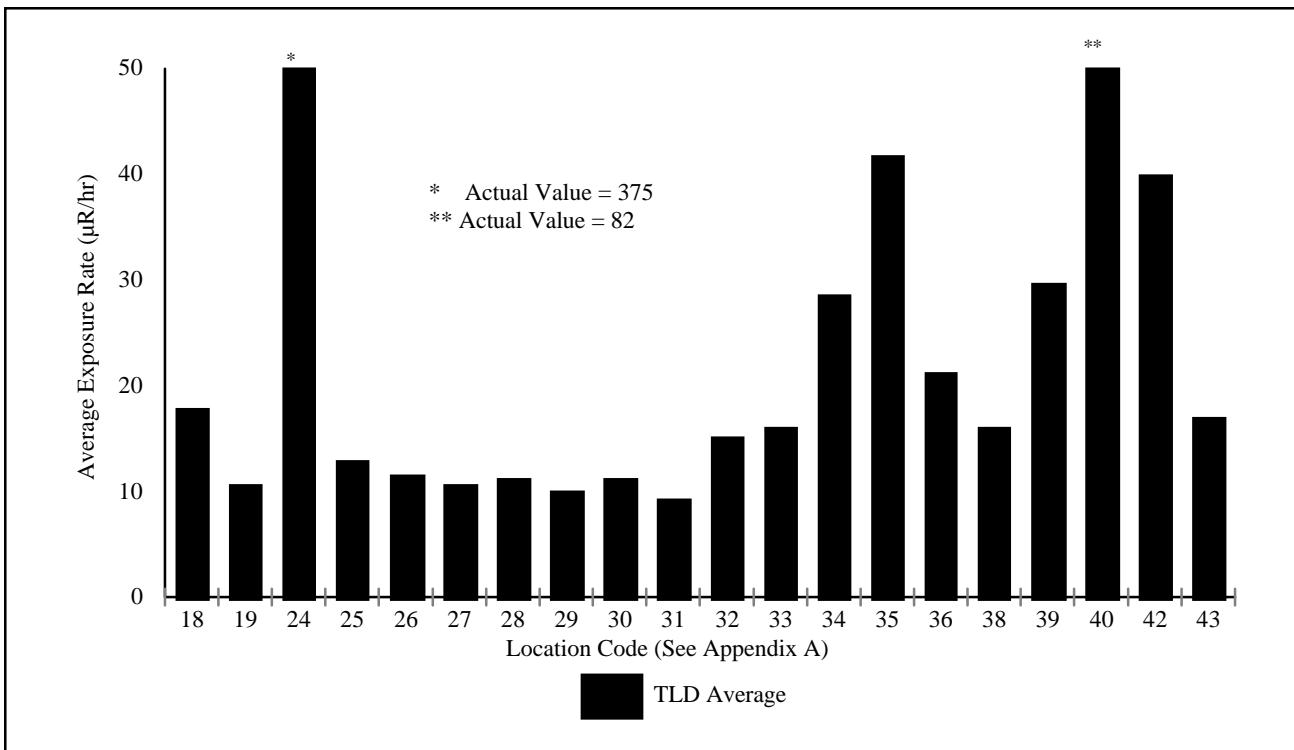


Figure C - 4.2

1996 Average Quarterly Gamma Exposure Rates on the West Valley Demonstration Project Site